

# **TEAM DEVELOPER™**

New & Changed Features

Product Version 7.3.5

Team Developer™: New & Changed Features

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# Team Developer 7.3.5

## IDE

- TD 7.3.5 now assumes that text application file saved with TD 7.2 and later version uses UTF8 encoding if application file does not have BOM (Byte Order Mark) even though "Use UTF-8 Encoding For Read" option is not set.

## SAL API

- SalGridDataExportEx now sets column width when exporting to Excel. You can also set column width and row height to fit its contents by specifying EXPORT\_AutoFitColumns and/or EXPORT\_AutoFitRows flag.
- New SAL functions, SalDateAddDay and SalDateMonthEnd, are added. These are equivalent functions with DateAddDay and DateMonthEnd Report Builder formulas.
- New SAL function, SalGetVersionEx, is added to get full version information.
- You can now stop to show default tooltip (cell content string) for grid cell by returning FALSE from SAM\_DisplayToolTip event.
- Picture format value for hours, hh and hhhh, now always shows leading 0. h and hhh suppress leading 0.  
h : 1-12, hh : 01-12, hhh : 0-24, hhhh : 00-24

## UI

- Forms and dialogs that have Anchoring Enabled set to Yes no longer have scrollbars added when the size is adjusted smaller.

## Report Builder

- Field with static text was handled similar to background text and not shown if Suppress Line Spacing was enabled. You can now specify new report option, RPT\_ShowSimpleField, for SalReportPrint\* and SalReportView to show such fields.

# Team Developer 7.3.4

## SAL API

- Following three new SalWeb functions can be used only for .NET Web service are added.
  - SalWebGetClientIP to get client IP address from HTTP request.
  - SalWebGetHttpMethod to get method name of HTTP request.
  - SalWebGetHTTPHeader to get specified header value from HTTP request headers.

## UI

- You can now disable DPI awareness with following 2 options.
  - Setting "Disable\_DPI\_Awareness" custom version string for building executable to "YES" in Custom Version Strings dialog invoked from Build Settings - Version - Custom... TD does nothing about scaling but Windows still automatically scale TD application. You can also set it to "OLD" to keep backward compatibility with TD 6.3 and previous releases.
  - Adding registry DWORD value DPIAwareness with value 1 in HKEY\_CURRENT\_USER\Software\Gupta\SQLWindows 7.3\Settings. Set 2 to keep backward compatibility with TD 6.3.
- The navigate-back/navigate-forward feature is now better integrated with the GoTo Declaration/GoBack feature. Shift-Ctrl-G now operates similar to the navigate-back function of Ctrl-Backspace.

## Native Router

- A connection string can have most of options can be defined in sql.ini. ODBC DSN definition and ORACLE EzConnect format can be defined outside of sql.ini (See below example).

---

```
'ConnectionString:comdll=sqlodb32;dbname="DRIVER=ODBC Driver 17 for SQL  
Server;Server=PF21MBWD;Database=SUPPORT;Trusted_Connection=No"'
```

```
'ConnectionString:comdll=sqlora32;dbname=localhost/ora19;longbuffer=1024000;fetch  
row=20;SUBSTITUTE=SYSSQL.,'
```

---

# Team Developer 7.3.3

## SAL API

- Added new SAL function SalFieldSetVerticalCentered to make text in data field center vertically.
- Add new SAL function, SalSetComboBoxItemHeight / SalGetComboBoxItemHeight, to set/get the height of edit control of combo box or item in dropdown list.

## UI

- Allow scrollbars on anchor enabled forms and dialogs.

# Team Developer 7.3.2

## SAL API

- VisTblAddBitmap now allows up to 65534 bitmaps to be added. The returned ID of valid bitmaps will be between 1 and 65535.
- Added new table flag, TBL\_Flag\_SelectableRows, for use with SalTblSetTableFlags to allow/disallow rows to be selected by the user. Programmatic row selection using SalTblSetRowFlags with ROW\_Selected flag is allowed regardless of the setting of TBL\_Flag\_SelectableRows.
- Added new SAL function SalIconSet to allow setting the window icon from a resource in the outline.
- New SAL function, SqlSetLongDatatype, which can be used instead of SqlSetLongBindDatatype is added. This can set long data type of Bind and Into variables separately for specified SQL handle. SqlSetLongBindDatatype uses global buffer and can be used for both bind and into variables. This introduces ambiguous situations in some case, and it's not clear when its setting will be reset. SqlSetLongDatatype resolves this issue.

# Team Developer 7.3.1

## IDE

- Add outline preference to allow the number of spaces to indent to be configured.
- Add "Hide Included Item" and "Show Included Items" in object tree context menu for application root item.

## SAL API

- Added EXPORT\_UnSelectedRows flag for SalGridDataExportEx to export only the unselected rows.
- Added EXPORT\_AllRows flag for SalGridDataExportEx to ensure all rows are fetched.
- Added COL\_NoEditText flag (0x200) for SalTblSetColumnFlags to prevent paste into column when set.
- Added new table flag, TBL\_Flag\_DisableVisTblSort, to disable sorting of VisTbl properties (row colors, images) during SalTblSortRows. This improves performance by about 10 percent.
- Added new table flag, TBL\_Flag\_DisableScrollRange, that can be set to TRUE before a loop that calls SalTblInsertRow, and then reset to FALSE when the loop completes.
- Added new table flag, TBL\_Flag\_UseTableLineColor, to use the same line color for child grid and grid window as the child table and table window. This flag is ignored by the child table and table window.
- Added new table flag, TBL\_Flag\_GroupFontUseGrid, to allow using the same font for the

grid and its groups.

- Allow LBS\_ThemedCombo style to be ORed with with LBS\_VisExtensions in call to VisListSetStyle in VTM\_Create for VT list boxes:

Call VisListSetStyle( hWndItem, LBS\_VisExtensions| LBS\_ThemedCombo, lParam)

- A new message, SAM\_TrackMenuInit, has been added to allow adding menu items to a named menu after SalTrackPopupMenu has been called.
- A new constant, TPM\_DynamicMenu, has been added that can be ORed with the nFlags argument of SalTrackPopupMenu to indicate that dynamic menus are used. Another new constant, MENUFLAG\_TRACKMENU has been added that can be ORed with the nFlags argument of SalMenuInsert to indicate that the menu item should be added to the track popup menu. When the user clicks on the added menu item, SAM\_MenuItemClick is executed on the parent form or dialog, passing the name of the added menu item.

- New SAL function, SalTooltipSetDelay and SalTooltipGetDelay

**bOk = SalTooltipSetDelay( hWnd, nDelay )**

Sets the time in milliseconds to delay SAM\_DisplayTooltip for the current control.

Returns TRUE on success

**nDelay = SalTooltipGetDelay( hWnd )**

Returns The tooltip delay time in milliseconds.

- New SAL function, SalTabEnableCtrlTab

**bOk = SalTabEnableCtrlTab( hWndTab, bEnable )**

Enable or disable Ctrl-Tab key on tab bar. By default, the tab bar handles the Ctrl-Tab key.

- New SAL function, SalSetButtonChecked

**bOk = SalSetButtonChecked( hWnd, nCheck )**

Sets whether a radio button, option button, or check box is checked.

A radio button can only be checked. Other radio buttons in the same group are unchecked.

**Parameters:**

hWnd Window Handle. The handle (or name) of a radio button, option button, or check box.

nCheck Number. 0 = Unchecked, 1 = Checked.

**Return Value:**

Returns whether checked/unchecked operation successful.

- New SAL function, SalYieldSetInterval

**bOk = SalYieldSetInterval( nInterval )**

Sets the number of statements to execute between yield handling. Default is 48.

- Add a new SAL function, SalAnchorEnable, that can be called in SAM\_Create to enable the control anchoring feature for toolbars.

**bOk = SalAnchorEnable( hWndToolbar, bEnable )**

Must be called from SAM\_Create of the parent form. Anchoring is disabled if the user moves a toolbar from a vertical to horizontal docked orientation, or vice versa.

## UI

- The grid will no longer scroll to the beginning when it is disabled.

## Native Router

- Currently, TD hard codes which ODBC driver supports back end result set. Now customer can specify ODBC driver supporting back end result set by using the brsdriver option in [odbcctr] section of sql.ini like as follows. If actual ODBC driver name starts with this name, TD enable back end result set. Note, this may introduce some side effect that TD cannot handle.

```
[odbcctr]
brsdriver=msodbcsql
```

## ReportBuilder

- We cannot find a way to open the old style WMF image. Instead, ReportBuilder saves the WMF image data as an external file and shows a dialog to indicate its location. Customers can convert it to an EMF image manually and embed it to ReportBuilder instead of using the original WMF image.

## Message

- A new message, SAM\_TrackMenuInit, has been added to allow adding menu items to a named menu after SalTrackPopupMenu has been called. A new constant, MENUFLAG\_TRACKMENU has been added that can be ORed with the nFlags argument of SalMenuInsert to indicate that the menu item should be added to the track popup menu. When the user clicks on the added menu item, SAM\_MenuItemClick is executed on the parent form or dialog, passing the name of the added menu item.
- The SAM\_DropDown message is now handled for a column with Date Time cell type.

## Miscellaneous

- The Deployment installer has a "Web service components" feature in Select Features dialog.

# Team Developer 7.3

## IDE

- Overloaded functions will be shown in the ACA tooltip and quickinfo.
- When opening text outlines from TD 7.0, 7.1 or 7.2 with TD 7.3, the user will be prompted for conversion unless the value of Settings/AutoConvert in the registry is non-zero.
- Tools menu has a Debug Windows sub menu. The sub menu items include Auto, Threads, Variables, Call Stack, Messages, Expressions, and Locals. Tools menu includes Profiling Viewer at the bottom.



## SAL API

- **SalTraceDebug** – convenience function to write debug messages to the IDE output window without needing to use StartTrace/EndTrace
- **SalStrHash** – Generates hash values for a string parameter. Supports MD5, SHA1, and SHA 256 – 512 algorithms.
- **CdkSetUTF8Option** – CDK API function to enable/disable UTF-8 outline save/read option available in Tools->Preferences->General tab.
- **SalDlgGetAutoHideStatus/SalDlgSetAutoHideStatus** – get/set the auto hide status of docked dialogs.
- **SalXmlSerializeUDVToString/SalXmlDeserializeUDVFromString** – Xml serialize UDV to string parameter instead of file.
- **SalNavSaveStateEx/SalNavLoadStateEx** – Save/load state of navigation bar to receive params.
- **SalNetCompileAndEvaluate** – Enhanced to support calling SAL functions
- **SalNotifyInitToast/SalNotifyShowToast** – Enhancement to our notification API added in 7.2. These functions create native Windows 10 toast notifications with improved OS functionality (the 7.2 balloon/notify API is compatible with earlier versions of Windows but lack certain features on Windows 10).
- **SalCreateWindowEx** – now supports a new CREATE\_ChildWithMenu flag that enables child forms to display a menubar. Note that these menus will not work in every scenario, such as split windows.
- **SalQueryFieldEdit/SalSetFieldEdit** – Added support for Rich Text controls
- **VisWinLoadAccelerator** – Allows constant KDS\_KeyDownMask flag to be OR'd with nKeyDownState argument and changes behavior to trigger on keydown instead of default keyup.

## Runtime Profiling

- The profile viewer has been enhanced with a grid tree view option for better performance and sorting/filtering capability. The viewer supports showing annotations and custom profile points.
- Three new profile functions have been added to the API:
  - **SalProfileAnnotate** – Adds annotations to the output
  - **SalProfileTagEnter** – Starts a custom profile point
  - **SalProfileTagLeave** – Stops a custom profile point

## UI

- Anchoring support for controls to enable dynamic resize/position as the parent container is resized (Win32 only).
  - To enable, set Anchoring Enabled to Yes on parent container (form/tab etc.)
  - Controls have new properties:
    - Vertical Anchor/Horizontal Anchor – Changes horizontal or vertical resize/position behavior as parent container is resized
    - Minimum Width/Minimum Height: Set a limit on how small a control can get. When limit is hit, parent container won't resize below that point.

- New message SAM\_ColHeaderClick for Grid and Table Window to determine programmatically what column header a user clicked.

## SalMail

- Replace implementation based on Microsoft Smtplib to use MailKit, which supports modern security and authentication schemes.
- Each provider has different implementations on how it handles OAuth2. A plugin interface has been implemented to support the implementations. The OAuth2Sample installation folder has an example of how to implement such a plugin. The plugin can be registered using the following API:
  - Call Client.SetPlugin("C:\\Program Files (x86)\\Gupta\\Team Developer 7.3\\OAuth2Sample\\bin\\Release\\OAuth2Sample.dll")
- SetClientSecrets – new function for authenticating to Gmail using OAuth
  - Obtain client ID/Secret from Google API console.

## Miscellaneous

- Support QuickObject for Grid control
- Notification icons created with SAL notify API will be removed on application close
- Updated demodll sample to C++ and make it x64 compatible